

# Executive Summary Report

## SMOG CHECK Statewide

October 2008

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	752,375	97,415	12.95%
Total	878,118	126,688	14.43%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	641,367	85.25%	111,008	14.75%
Total	732,758	83.45%	145,360	16.55%

### 2a. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	391,619	85.66%	65,571	14.34%
Total	448,919	84.70%	81,110	15.30%

### 3. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	15,016	2.00%
All Emissions	49,311	6.55%
All Visual	11,209	1.49%
All Functional	32,581	4.33%
OBDII	33,943	4.51%
Overall	97,415	12.95%

### 4. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	599,907	78,657	13.11%	11,908	1.98%
Partially Enhanced	37,521	5,631	15.01%	863	2.30%
Basic	68,892	8,344	12.11%	1,397	2.03%
Change of Ownership	5,106	810	15.86%	216	4.23%
No Program	2	0	0.00%	0	0.00%
Unknown Program	40,947	3,973	9.70%	632	1.54%
Total Program Area	752,375	97,415	12.95%	15,016	2.00%

### 5. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	457,190	63,809	13.96%	10,362	2.27%
Regular	223,556	21,751	9.73%	2,838	1.27%
Basic Area Dealer	3,807	205	5.38%	21	0.55%
Gold Shield in Enhanced Area	54,910	9,436	17.18%	1,371	2.50%
Gold Shield in Basic Area	5,307	935	17.62%	171	3.22%
Gold Shield in COO Area	4,049	578	14.28%	162	4.00%
Business Fleet	4	0	0.00%	0	0.00%
Permanent Fleet Registered	112	10	8.93%	1	0.89%
Referee	928	475	51.19%	76	8.19%
Government Fleet	2,510	214	8.53%	14	0.56%
Unknown Privilege	2	2	100.00%	0	0.00%
Total	752,375	97,415	12.95%	15,016	2.00%

### 5.a. Initial Tests at Test-Only Stations

	Initial Tests	Certificates Issued
Volunteers	227,891	202,612
Directed Vehicles	229,299	189,007
Total	457,190	391,619

### 5.b. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	46,498	38,782
Directed Vehicles	17,768	13,339
Total	64,266	52,121

**6. Initial Tests by Vehicle Model Year**

Model Year	Initial Tests	Failed Overall	Percent (%) Failed Overall	Percent (%) Failed Emissions	Percent (%) Failed Gross Polluters	Percent (%) Failed Functional	Percent (%) Failed Visual	Percent (%) Failed OBDII
MY-1965	3	2	66.67%	33.33%	33.33%	0.00%	0.00%	0.00%
MY-1966	3	1	33.33%	33.33%	0.00%	0.00%	0.00%	0.00%
MY-1971	1	1	100.00%	100.00%	0.00%	100.00%	0.00%	0.00%
MY-1974	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1975	7	5	71.43%	28.57%	0.00%	42.86%	14.29%	0.00%
MY-1976	1,091	344	31.53%	20.90%	10.45%	19.43%	8.62%	0.00%
MY-1977	1,705	497	29.15%	17.77%	8.80%	19.24%	7.21%	0.00%
MY-1978	1,903	523	27.48%	16.71%	8.41%	17.97%	7.72%	0.00%
MY-1979	2,324	730	31.41%	20.18%	10.84%	20.09%	8.09%	0.00%
MY-1980	1,359	375	27.59%	19.21%	10.45%	17.22%	7.28%	0.00%
MY-1981	1,543	458	29.68%	22.42%	11.92%	16.92%	8.30%	0.00%
MY-1982	1,896	539	28.43%	21.47%	10.81%	17.14%	7.86%	0.00%
MY-1983	2,398	722	30.11%	22.98%	10.59%	15.89%	7.80%	0.00%
MY-1984	4,632	1,421	30.68%	23.47%	11.77%	17.06%	6.65%	0.00%
MY-1985	5,962	1,814	30.43%	23.16%	11.32%	17.43%	6.76%	0.00%
MY-1986	9,115	2,575	28.25%	20.59%	9.54%	16.24%	5.89%	0.00%
MY-1987	10,990	3,128	28.46%	21.46%	8.66%	15.61%	5.00%	0.00%
MY-1988	12,782	3,379	26.44%	19.45%	7.43%	14.75%	4.36%	0.00%
MY-1989	17,750	4,123	23.23%	16.15%	6.08%	13.06%	3.70%	0.00%
MY-1990	20,154	4,522	22.44%	16.07%	5.33%	12.02%	3.12%	0.00%
MY-1991	25,312	5,205	20.56%	14.78%	4.86%	10.81%	2.67%	0.00%
MY-1992	23,754	4,604	19.38%	13.79%	4.52%	10.04%	2.51%	0.00%
MY-1993	28,763	6,329	22.00%	16.26%	4.03%	10.47%	2.38%	0.00%
MY-1994	34,721	6,447	18.57%	12.30%	2.76%	9.46%	2.22%	0.00%
MY-1995	35,596	6,150	17.28%	11.66%	2.64%	8.65%	2.12%	0.00%
MY-1996	44,193	7,267	16.44%	6.57%	1.00%	1.70%	1.26%	11.19%
MY-1997	38,290	5,902	15.41%	5.91%	1.08%	1.67%	1.12%	10.86%
MY-1998	66,564	7,108	10.68%	3.18%	0.54%	0.89%	0.73%	8.00%
MY-1999	41,032	4,224	10.29%	2.50%	0.49%	0.78%	0.76%	8.20%
MY-2000	109,967	8,084	7.35%	1.31%	0.30%	0.61%	0.43%	6.09%
MY-2001	32,398	2,680	8.27%	1.24%	0.29%	0.69%	0.48%	7.18%
MY-2002	125,211	6,563	5.24%	0.54%	0.14%	0.45%	0.36%	4.55%
MY-2003	15,082	611	4.05%	0.54%	0.13%	0.30%	0.27%	3.43%
MY-2004	14,797	526	3.55%	0.30%	0.07%	0.24%	0.18%	3.05%
MY-2005	6,943	246	3.54%	0.39%	0.04%	0.23%	0.30%	2.95%
MY-2006	5,596	145	2.59%	0.20%	0.04%	0.21%	0.16%	2.18%
MY-2007	4,765	96	2.01%	0.23%	0.04%	0.17%	0.23%	1.51%
MY-2008	3,462	66	1.91%	0.17%	0.12%	0.17%	0.14%	1.53%
MY-2009	310	3	0.97%	0.00%	0.00%	0.00%	0.00%	0.97%
All Model Years	752,375	97,415	12.95%	6.55%	2.00%	4.33%	1.49%	4.51%

7. Referee Activity

	Certificates Issued
Certificate of Compliance	639
Certificate of Non Compliance	0
Parts Cost	112
Hardship Extensions	205
Exempt Vehicle	27
Exempted by Directive	159
Parts Exemption	3
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	1,145

8. Active Stations

	Station Count
Licensed Stations that did not Conduct a Test	1,074
Stations Locked-Out at Least Once	112
Stations Conducted at Least One Test	7,253

9. Active Technicians

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	9,985	5,805
EA	Gas Endorsement	11	0
EB	Both Endorsement	54	0
EB	Gas Endorsement	524	0
GU	Both Endorsement	20	0

10. Inspection Costs

	ASM Initial Test Count	Avg ASM Inspection Cost	TSI Initial Test Count	Avg TSI Inspection Cost	Total Initial Tests	Overall Average Inspection Cost
Test Only	404,105	49.33	47,358	50.40	451,463	49.44
Test and Repair	144,401	47.20	76,432	47.19	220,833	47.19
Test and Repair Dealer	8	66.13	3,799	50.51	3,807	50.54
Referee	449	30.00	173	30.00	622	30.00
Gold Shield in Enhanced Area	43,320	49.02	11,316	46.20	54,636	48.43
Gold Shield in Basic Area	0	0.00	5,307	37.93	5,307	37.93
Gold Shield in COO Area	22	54.32	4,032	52.37	4,054	52.38

11. Repair Costs

Repair Type	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
Regular Repairs	\$0-50	7,439	22.05	24,443	214.44
	\$51-150	6,014	101.12		
	\$151-250	3,952	198.77		
	\$251-450	4,068	337.78		
	Over \$450	2,970	777.70		
CAP Repairs	\$0-50	146	24.81	4,870	380.45
	\$51-150	295	108.77		
	\$151-250	629	203.67		
	\$251-450	1,775	353.83		
	Over \$450	2,025	523.92		
Total Repairs	\$0-50	6,128	22.28	25,647	276.61
	\$51-150	4,785	101.08		
	\$151-250	4,044	200.43		
	\$251-450	5,384	344.31		
	Over \$450	5,306	718.03		

12. CAP Repair Costs

	Total Vehicles	Average Repair Cost
CAP Repairs	4,526	380.45

13. Drill-Through

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Basic	Gold Shield in Enhanced Area	5	6	0	0	0	5	4	0
Acceleration Simulation Mode (ASM)	Basic	Referee	1	3	1	0	1	1	1	1

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Basic	Test and Repair	36	7	0	0	6	2	0	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	30,357	6,865	974	309	2,392	3,525	2,277	818
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	115	4	2	50	48	17	2
Acceleration Simulation Mode (ASM)	Enhanced	Referee	276	298	38	102	79	141	83	136
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	99,498	10,283	1,079	523	5,264	4,088	2,647	989
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	327,206	56,340	9,130	2,772	17,322	32,057	19,281	6,243
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	2,796	745	120	38	231	392	264	107
Acceleration Simulation Mode (ASM)	Partial	Government Fleet	0	2	0	0	0	1	1	0
Acceleration Simulation Mode (ASM)	Partial	Referee	12	30	5	11	5	18	12	16
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	15,892	2,875	416	153	797	1,487	1,107	383
Acceleration Simulation Mode (ASM)	Partial	Test Only	9,006	1,666	266	106	480	931	544	216
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,647	279	34	26	114	131	77	48
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	62	3	0	17	39	8	0
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	36	22	5	7	5	15	8	11
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	11,008	1,114	158	66	493	521	300	131
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	11,611	1,554	270	107	610	867	407	213
Acceleration Simulation Mode (ASM)	Unknown Program	Unknown Privilege	0	2	0	0	0	1	1	0
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	3,815	869	155	69	250	319	382	140
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	290	27	7	1	6	13	15	4
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	4,088	852	128	65	256	273	391	162
Two Speed Idle (TSI)	Basic	Referee	42	66	14	31	10	21	30	43

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Two Speed Idle (TSI)	Basic	Test and Repair	41,313	5,369	885	310	1,719	1,824	2,423	657
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	2,775	181	19	6	64	53	75	22
Two Speed Idle (TSI)	Basic	Test Only	6,308	952	188	52	323	406	333	109
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	39	8	3	2	0	4	4	3
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	1,669	389	101	25	90	195	160	45
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	224	48	14	2	10	23	26	8
Two Speed Idle (TSI)	Change of Ownership	Referee	8	9	3	2	1	5	5	4
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,505	218	56	18	60	99	97	41
Two Speed Idle (TSI)	Change of Ownership	Test Only	721	136	39	9	28	66	59	24
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	227	21	0	1	12	2	6	2
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	400	43	9	1	21	13	12	2
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	4,299	510	81	24	242	152	172	55
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	19	7	0	7	10	2	0
Two Speed Idle (TSI)	Enhanced	Permanent Fleet Registered	55	9	1	0	2	4	2	5
Two Speed Idle (TSI)	Enhanced	Referee	41	32	1	20	12	2	6	21
Two Speed Idle (TSI)	Enhanced	Test and Repair	17,667	1,234	162	61	706	316	326	127
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	261	12	1	0	9	2	2	0
Two Speed Idle (TSI)	Enhanced	Test Only	32,880	2,875	421	117	1,651	839	602	241
Two Speed Idle (TSI)	Partial	Gold Shield in Basic Area	36	2	0	0	1	1	1	1
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	47	3	1	0	2	1	1	1
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	314	53	10	1	27	17	18	6
Two Speed Idle (TSI)	Partial	Test and Repair	1,794	170	25	10	69	51	67	22
Two Speed Idle (TSI)	Partial	Test and Repair Dealer	46	2	0	0	1	1	1	0
Two Speed Idle (TSI)	Partial	Test Only	871	81	20	5	37	35	19	13
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	206	35	13	4	9	17	14	8
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	934	115	44	3	39	58	47	18
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	709	78	10	8	35	21	25	12
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	8	0	0	6	1	1	0
Two Speed Idle (TSI)	Unknown Program	Referee	38	14	9	1	5	11	2	3

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Two Speed Idle (TSI)	Unknown Program	Test and Repair	4,918	480	57	31	239	121	167	66
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	323	10	1	1	6	3	2	1
Two Speed Idle (TSI)	Unknown Program	Test Only	2,983	200	28	16	112	61	41	26
UnKnown TestType	Change of Ownership	Referee	0	1	0	0	0	1	0	1